Powering Business Worldwide	**Product Environmental Profile**	PEP ecopassport®

	**CEAG ExLin series without V-CG-S**

Eaton Product	ExLin 5L-1 GCS 840 T1 2/6 M20M [12300440111] PSR Product category: Luminaires
Description of the product	CEAG ExLin LED light fixture is approved for use in Zone 1 and Zone 21 hazardous areas. It provides longer life, improved efficiency and superior performance with a competitive payback versus fluorescent fixtures. CEAG ExLin fixtures combine state-of-the-art LED technology with optimised thermal management and a time-tested enclosure to extend service life in extreme environments. The CEAG ExLin series considered in the study is without internal battery & without emergency lighting function.
Homogeneous Environmental Families Covered	The PEP covers CEAG ExLin without V-CG-S series as mentioned below:

Model	ExLin 3L-1	ExLin 5L-1	ExLin 5L-2	ExLin 7L-2	ExLin 10L-2
Voltage	220-254 V AC / 195-250 V DC				220-277 V AC/DC
Frosted glass cover	CRI >70, > 80		CRI >70	CRI >70, > 80	CRI >80
Clear glass cover	CRI >70, > 80		CRI >70	CRI >70, > 80	--
Optics	Standard, Narrow, Wide		Standard, Wide	Standard, Wide	Standard
CCT	4000, 5000				5000
Power Consumption	22 W	44 W	44 W	67 W	89 W

Declared Unit	A luminaire providing an outgoing luminous flux of 4680 lumens during a reference lifetime of 100,000 hrs (25 years)
Functional unit	Provide lighting that delivers an outgoing artificial luminous flux of 1,000 lumens during a reference lifetime of 35,000 hours

<table>
<tr><td>Specifications</td><td>Light Source: Integrated
Control Gear: Integrated
Degree of protection according to EN 60529: IP66 and IP67
Impact resistance index (IK) IK-class according to IEC/EN 62262: IK10
Luminous efficiency: 106.36 lm / W

<table><tr><th>Luminaire</th><th>Type of building</th><th>Annual operating hours by default</th><th>Operational lifetime</th></tr><tr><td rowspan="2">Assigned lifetime of 100,000 hours</td><td>Industry (Manufacturing plants)</td><td>4000</td><td>25</td></tr><tr><td>Zone, open space</td><td>4000</td><td>25</td></tr></table></td></tr>
<tr><td>Company information</td><td>Eaton Corporation - Cooper Industries Romania SRL Zona Industriala Vest, Str III, Nr 12,310510, Arad, Romania (ISO 14001Certified)
Email: productstewardship-es@eaton.com</td></tr>
</table>

Constituent Materials			
Reference product mass	9.09 kg (includes packaging)		
Category PEP Material	**Materials**	**Mass (g)**	**Percentage (%)**
Plastic	Polyamide	2.43E+00	26.8%
Others	Cardboard	1.95E+00	21.5%
Plastic	Polyester	1.72E+00	18.9%
Others	Quartz sand	1.42E+00	15.6%
Others	Glass	6.20E-01	6.8%
Metals	Steel	2.92E-01	3.2%
Metals	Brass	1.60E-01	1.8%
Others	PWB	9.40E-02	1.2%
Others	Electronics	9.22E-02	1.0%
Metals	Ferrite	8.00E-02	0.9%
Metals	Copper	5.07E-02	0.6%
Plastic	PBT	4.41E-02	0.5%
Others	Paper	4.00E-02	0.4%
Plastic	PVC	2.85E-02	0.3%
Plastic	Polyurethane	2.60E-02	0.3%
Others	Miscellaneous	4.56E-02	0.3%
Total		**9.09E+00**	**100.0%**

Additional Environmental Information	
Manufacturing	The product is assembled and packed at Eaton facility holding environment management system certifications according to ISO 14001 standard.
Distribution	Eaton is committed to minimizing weight and volume of product and packaging with focus to optimize transport efficiency.
Installation	Product needs standard tools which do not require any additional energy source and no waste other than the obsolete product packaging & upstream waste from fixing elements is generated during this step.
Use	Product does not need any maintenance or replacement during its operational life.
End of life	The recyclability rate of the overall product is 50.8% if properly dismantled prior to further processing at a recycling facility. The rate is calculated based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).

Substance Assessment

The representative product is compliant with the EU-RoHS Directive (2011/65/EU) by application of exemptions and the product contains lead (Pb) which is listed as Substance-of-Very-High-Concern (SVHC) on the Candidate List of the EU-REACH Regulation (1907/2006/EC).

Environmental Impacts

The calculation of environmental impacts is the result of a Product Life Cycle Analysis in accordance with ISO 14040/44, covering the entire product lifecycle, i.e. "from cradle to grave" including the following life cycle phases: production, distribution, installation, use and end of life.
System modelling was carried out using the commercial LCA software EIME v6.1.1 with database version CODDE-2023-02.
Indicators Set: PEF EF 3.0 (Compliance: PEP ed.4, EN15804+A2) v2.0

Manufacturing Phase	Product is assembled and prepared for shipment at the Cooper Industries Romania, in Arad Romania Energy model used: Romania, China & Europe
Distribution Phase	Distribution of the product in its packaging from the Eaton's last logistics platform to the installation place in Europe is considered as per PCR rules.
Installation Phase	Product installed in Europe. Additional fixing elements for installation and treatment of packaging waste is considered in this phase. Energy model used: Europe
Use Phase	Reference lifetime: 100,000 hrs for reference product/ declared unit. 35,000 hrs for functional unit as per PSR-0014. Usage profile: The product has power consumption of 44W, total consumption is 4400 kWh over 100,000 hrs for declared unit. Product do not require any maintenance/replacement during useful life. Energy model used: Europe

End of life Phase	Eaton is affiliated to the WEEE third party organizations present in Europe. Since the Exlin luminaire has wide sales across Europe, the product at its end of life is managed as per ECO'DEEE method considering average waste treatment statistics. Energy model used: Europe

Environmental impacts: Functional Unit (FU):

This environmental declaration has been developed by considering an outgoing artificial luminous flux of 1,000 lumens over a reference lifetime of 35,000 hours as per PSR.

Environmental impacts of PEP (for 1,000 lumens over 35,000 hours) = Environmental impacts of the reference product x (1,000 / Outgoing luminous flux of the reference product in lumens) x (35,000 / Assigned product lifetime of the reference product in hours)

Mandatory Environmental Impact Indicators (FU)

Mandatory environmental impact indicators	Units	Total	Manufacturing (A1-A3)	Distribution (A4)	Installation (A5)	Use (B6*)	End of Life (C1-C4)
Resource use, minerals and metals (ADPe)	kg Sb eq.	1.89E-04	1.38E-04	6.60E-09	3.89E-05	9.67E-06	2.15E-06
Resource use, fossils (ADPf)	MJ	3.56E+03	1.34E+02	2.34E+00	1.06E+01	3.40E+03	1.52E+01
Acidification Potential (AP)	mole of H^+ eq.	8.26E-01	5.76E-02	1.06E-03	2.12E-03	7.62E-01	3.41E-03
Eutrophication, freshwater (Epf)	kg P eq.	5.63E-04	1.11E-04	6.29E-08	2.44E-06	3.65E-04	8.41E-05
Eutrophication marine (Epm)	kg N eq.	9.75E-02	9.25E-03	4.98E-04	4.43E-04	8.65E-02	7.94E-04
Eutrophication, terrestrial (Ept)	mol N eq.	1.40E+00	8.40E-02	5.46E-03	3.32E-03	1.30E+00	5.97E-03
Climate change-Total (GWP)	kg CO_2 eq.	1.44E+02	8.80E+00	1.68E-01	5.62E-01	1.33E+02	7.26E-01
Climate change-Biogenic (GWPb)	kg CO_2 eq.	2.30E-01	4.32E-02	0.00E+00	6.66E-03	1.78E-01	2.50E-03
Climate change-Fossil (GWPf)	kg CO_2 eq.	1.43E+02	8.76E+00	1.68E-01	5.55E-01	1.33E+02	7.24E-01
Climate change-Land use and land use change (GWPlu)	kg CO_2 eq.	1.10E-06	1.04E-06	0.00E+00	0.00E+00	0.00E+00	6.27E-08
Ozone depletion (ODP)	kg CFC-11 eq.	1.34E-06	6.11E-07	2.57E-10	8.57E-08	5.71E-07	6.97E-08
Photochemical ozone formation - human health (POCP)	kg NMVOC eq.	3.09E-01	2.72E-02	1.38E-03	1.12E-03	2.78E-01	1.81E-03
Water use (WU)	m^3 eq.	1.29E+01	2.75E+00	6.37E-04	1.58E-01	4.72E+00	5.22E+00

*B6 is the only energy consumption during use phase. Other submodules B1-B5 & B7 are equal to 0, hence not listed in the table.

Mandatory Inventory Flow Indicators (FU)

Inventory flow indicators	Units	Total	Manufacturing (A1-A3)	Distribution (A4)	Installation (A5)	Use (B6*)	End of Life (C1-C4)
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	6.54E+02	1.02E+00	3.12E-03	1.91E-01	6.53E+02	2.17E-01
Use of renewable primary energy resources used as raw material	MJ	3.11E+00	3.11E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of renewable primary energy resources	MJ	6.57E+02	4.13E+00	3.12E-03	1.91E-01	6.53E+02	2.17E-01
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.55E+03	1.20E+02	2.34E+00	1.06E+01	3.40E+03	1.52E+01
Use of non renewable primary energy resources used as raw material	MJ	1.41E+01	1.41E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of non-renewable primary energy resources	MJ	3.56E+03	1.34E+02	2.34E+00	1.06E+01	3.40E+03	1.52E+01
Use of secondary material	kg	1.24E-03	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of freshwater	m^3	3.17E-01	6.41E-02	1.48E-05	3.69E-03	1.10E-01	1.40E-01
Components for reuse	Kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	Kg	5.10E-01	2.02E-01	0.00E+00	2.67E-02	0.00E+00	2.82E-01
Materials for energy recovery	Kg	8.70E-02	8.67E-03	0.00E+00	1.03E-02	0.00E+00	6.80E-02
Exported Energy	MJ	5.57E-02	4.92E-03	0.00E+00	0.00E+00	0.00E+00	5.08E-02
Hazardous waste disposed	Kg	1.06E+01	4.67E+00	0.00E+00	2.82E+00	2.49E+00	5.78E-01
Non hazardous waste disposed	Kg	2.61E+01	5.96E+00	5.88E-03	2.11E-01	1.92E+01	7.23E-01
Radioactive waste disposed	Kg	5.77E-03	1.30E-03	4.19E-06	6.86E-05	4.02E-03	3.72E-04
Biogenic carbon content of the product	kg C	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon content of the associated packaging	kg C	4.15E-02	4.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*B6 is the only energy consumption during use phase. Other submodules B1-B5 & B7 are equal to 0, hence not listed in the table.

Optional Environmental Impact Indicators (FU)

Optional Environmental impact indicators	Units	Total	Manufacturing (A1-A3)	Distribution (A4)	Installation (A5)	Use (B6*)	End of Life (C1-C4)
Ecotoxicity, freshwater	CTUe	1.97E+03	5.06E+02	1.13E-01	1.10E+01	1.44E+03	1.98E+01
Human toxicity, cancer	CTUh	9.56E-07	6.94E-07	2.95E-12	1.29E-08	1.56E-08	2.34E-07
Human toxicity, non-cancer	CTUh	8.64E-07	2.24E-07	3.19E-10	9.44E-09	6.17E-07	1.32E-08
Ionising radiation, human health	kg U235 eq.	2.09E+02	1.06E+01	4.08E-04	2.32E-02	1.98E+02	1.28E-01
Land use	No dimension	3.16E+00	2.92E-01	0.00E+00	2.44E-03	2.66E+00	2.11E-01
EF-particulate Matter	Disease occurrence	6.36E-06	3.48E-07	8.63E-09	7.20E-08	5.91E-06	2.24E-08
Total Primary Energy	MJ	4.22E+03	1.38E+02	2.34E+00	1.08E+01	4.05E+03	1.54E+01

*B6 is the only energy consumption during use phase. Other submodules B1-B5 & B7 are equal to 0, hence not listed in the table.

Environmental impacts: Declared Unit:

Mandatory Environmental Impact Indicators (DU)

Mandatory environmental impact indicators	Units	Total	Manufacturing (A1-A3)	Distribution (A4)	Installation (A5)	Use (B6*)	End of Life (C1-C4)
Resource use, minerals and metals (ADPe)	kg Sb eq.	2.55E-03	1.86E-03	8.92E-08	5.26E-04	1.31E-04	2.90E-05
Resource use, fossils (ADPf)	MJ	4.81E+04	1.81E+03	3.16E+01	1.43E+02	4.59E+04	2.05E+02
Acidification Potential (AP)	mole of H^+ eq.	1.12E+01	7.79E-01	1.43E-02	2.86E-02	1.03E+01	4.61E-02
Eutrophication, freshwater (Epf)	kg P eq.	7.61E-03	1.50E-03	8.50E-07	3.30E-05	4.94E-03	1.14E-03
Eutrophication marine (Epm)	kg N eq.	1.32E+00	1.25E-01	6.72E-03	5.99E-03	1.17E+00	1.07E-02
Eutrophication, terrestrial (Ept)	mol N eq.	1.89E+01	1.14E+00	7.38E-02	4.49E-02	1.76E+01	8.07E-02
Climate change-Total (GWP)	kg CO_2 eq.	1.94E+03	1.19E+02	2.27E+00	7.59E+00	1.80E+03	9.81E+00
Climate change-Biogenic (GWPb)	kg CO_2 eq.	3.11E+00	5.84E-01	0.00E+00	9.00E-02	2.41E+00	3.38E-02
Climate change-Fossil (GWPf)	kg CO_2 eq.	1.94E+03	1.18E+02	2.27E+00	7.50E+00	1.80E+03	9.78E+00
Climate change-Land use and land use change (GWPlu)	kg CO_2 eq.	1.49E-05	1.41E-05	0.00E+00	0.00E+00	0.00E+00	8.47E-07
Ozone depletion (ODP)	kg CFC-11 eq.	1.81E-05	8.26E-06	3.47E-09	1.16E-06	7.71E-06	9.42E-07
Photochemical ozone formation - human health (POCP)	kg NMVOC eq.	4.18E+00	3.68E-01	1.86E-02	1.51E-02	3.75E+00	2.45E-02
Water use (WU)	m^3 eq.	1.74E+02	3.72E+01	8.60E-03	2.14E+00	6.38E+01	7.06E+01

*B6 is the only energy consumption during use phase. Other submodules B1-B5 & B7 are equal to 0, hence not listed in the table.

Mandatory Inventory Flow Indicators

Inventory flow indicators	Units	Total	Manufacturing (A1-A3)	Distribution (A4)	Installation (A5)	Use (B6*)	End of Life (C1-C4)
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	8.84E+03	1.38E+01	4.22E-02	2.58E+00	8.82E+03	2.94E+00
Use of renewable primary energy resources used as raw material	MJ	4.20E+01	4.20E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of renewable primary energy resources	MJ	8.88E+03	5.58E+01	4.22E-02	2.58E+00	8.82E+03	2.94E+00
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	4.79E+04	1.62E+03	3.16E+01	1.43E+02	4.59E+04	2.05E+02
Use of non renewable primary energy resources used as raw material	MJ	1.91E+02	1.91E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of non-renewable primary energy resources	MJ	4.81E+04	1.81E+03	3.16E+01	1.43E+02	4.59E+04	2.05E+02
Use of secondary material	kg	1.68E-02	1.68E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Inventory flow indicators	Units	Total	Manufacturing (A1-A3)	Distribution (A4)	Installation (A5)	Use (B6*)	End of Life (C1-C4)
Net use of freshwater	m^3	4.29E+00	8.66E-01	2.00E-04	4.99E-02	1.49E+00	1.89E+00
Components for reuse	Kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	Kg	6.90E+00	2.73E+00	0.00E+00	3.61E-01	0.00E+00	3.81E+00
Materials for energy recovery	Kg	1.18E+00	1.17E-01	0.00E+00	1.40E-01	0.00E+00	9.20E-01
Exported Energy	MJ	7.53E-01	6.65E-02	0.00E+00	0.00E+00	0.00E+00	6.87E-01
Hazardous waste disposed	Kg	1.43E+02	6.31E+01	0.00E+00	3.82E+01	3.37E+01	7.80E+00
Non hazardous waste disposed	Kg	3.53E+02	8.05E+01	7.95E-02	2.86E+00	2.59E+02	9.77E+00
Radioactive waste disposed	Kg	7.79E-02	1.76E-02	5.66E-05	9.27E-04	5.43E-02	5.03E-03
Biogenic carbon content of the product	kg C	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon content of the associated packaging	kg C	5.61E-01	5.61E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*B6 is the only energy consumption during use phase. Other submodules B1-B5 & B7 are equal to 0, hence not listed in the table.

Optional Environmental Impact Indicators

Optional Environmental impact indicators	Units	Total	Manufacturing (A1-A3)	Distribution (A4)	Installation (A5)	Use (B6*)	End of Life (C1-C4)
Ecotoxicity, freshwater	CTUe	2.67E+04	6.84E+03	1.53E+00	1.49E+02	1.94E+04	2.67E+02
Human toxicity, cancer	CTUh	1.29E-05	9.38E-06	3.98E-11	1.74E-07	2.10E-07	3.16E-06
Human toxicity, non-cancer	CTUh	1.17E-05	3.03E-06	4.31E-09	1.28E-07	8.34E-06	1.78E-07
Ionising radiation, human health	kg U235 eq.	2.83E+03	1.43E+02	5.52E-03	3.13E-01	2.68E+03	1.74E+00
Land use	No dimension	4.27E+01	3.94E+00	0.00E+00	3.30E-02	3.59E+01	2.85E+00
EF-particulate Matter	Disease occurrence	8.59E-05	4.70E-06	1.17E-07	9.72E-07	7.98E-05	3.02E-07
Total Primary Energy	MJ	5.70E+04	1.87E+03	3.16E+01	1.46E+02	5.48E+04	2.08E+02

*B6 is the only energy consumption during use phase. Other submodules B1-B5 & B7 are equal to 0, hence not listed in the table.

To evaluate the environmental impact of other products covered by this PEP, the extrapolation coefficients are given at product level (declared unit) & also at the functional unit level which is the emission of an outgoing artificial luminous flux of 1,000 lumens over 35,000 hours.

For each life cycle stage, the environmental impacts of the product are calculated by multiplying the reference product impacts of the declaration with the extrapolation coefficient. The "Total" column shall be calculated by adding the environmental impacts of each life cycle stage.

Factors for Manufacturing, Distribution, Installation, Use and End-of-Life Phase:

Classification	Model	Cover type	CRI	CCT (K)	lumens	Optics	Coefficient extrapolation factor at product level(Declared Unit)					Coefficient extrapolation factor at FU level				
							M	D	I	U	E	M	D	I	U	E
Reference	ExLin 5L-1	Clear glass	>80	4000	4680	Standard beam	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Homogeneous product	ExLin 3L-1	Clear glass	>70	5000	2910	Standard beam	1.00	1.00	1.00	0.50	1.00	1.61	1.61	1.61	0.80	1.61
Homogeneous product	ExLin 3L-1	Clear glass	>70	5000	3010	Narrow beam	1.00	1.00	1.00	0.50	1.00	1.55	1.55	1.55	0.78	1.55
Homogeneous product	ExLin 3L-1	Clear glass	>70	5000	3060	Wide beam	1.00	1.00	1.00	0.50	1.00	1.53	1.53	1.53	0.76	1.53

Classification	Model	Cover type	CRI	CCT (K)	lumens	Optics	Coefficient extrapolation factor at product level(Declared Unit)					Coefficient extrapolation factor at FU level				
							M	D	I	U	E	M	D	I	U	E
Homogeneous product	ExLin 3L-1	Clear glass	>70	4000	2770	Standard beam	1.00	1.00	1.00	0.50	1.00	1.69	1.69	1.69	0.84	1.69
Homogeneous product	ExLin 3L-1	Clear glass	>80	5000	2600	Standard beam	1.00	1.00	1.00	0.50	1.00	1.80	1.80	1.80	0.90	1.80
Homogeneous product	ExLin 3L-1	Frosted glass	>70	5000	2490	Standard beam	1.00	1.00	1.00	0.50	1.00	1.88	1.88	1.88	0.94	1.88
Homogeneous product	ExLin 3L-1	Frosted glass	>70	4000	2360	Standard beam	1.00	1.00	1.00	0.50	1.00	1.98	1.98	1.98	0.99	1.98
Homogeneous product	ExLin 3L-1	Frosted glass	>80	5000	2220	Standard beam	1.00	1.00	1.00	0.50	1.00	2.11	2.11	2.11	1.05	2.11
Homogeneous product	ExLin 3L-1	Frosted glass	>80	4000	2080	Standard beam	1.00	1.00	1.00	0.50	1.00	2.25	2.25	2.25	1.13	2.25
Homogeneous product	ExLin 5L-1	Clear glass	>70	5000	5610	Standard beam	1.00	1.00	1.00	1.00	1.00	0.83	0.83	0.83	0.83	0.83
Homogeneous product	ExLin 5L-1	Clear glass	>70	5000	5810	Narrow beam	1.00	1.00	1.00	1.00	1.00	0.81	0.81	0.81	0.81	0.81
Homogeneous product	ExLin 5L-1	Clear glass	>70	5000	5900	Wide beam	1.00	1.00	1.00	1.00	1.00	0.79	0.79	0.79	0.79	0.79
Homogeneous product	ExLin 5L-1	Clear glass	>70	4000	5330	Standard beam	1.00	1.00	1.00	1.00	1.00	0.88	0.88	0.88	0.88	0.88
Homogeneous product	ExLin 5L-1	Clear glass	>80	5000	5000	Standard beam	1.00	1.00	1.00	1.00	1.00	0.94	0.94	0.94	0.94	0.94
Homogeneous product	ExLin 5L-1	Frosted glass	>70	5000	4940	Standard beam	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	0.95	0.95
Homogeneous product	ExLin 5L-1	Frosted glass	>70	4000	4690	Standard beam	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Homogeneous product	ExLin 5L-1	Frosted glass	>80	5000	4410	Standard beam	1.00	1.00	1.00	1.00	1.00	1.06	1.06	1.06	1.06	1.06
Homogeneous product	ExLin 5L-1	Frosted glass	>80	4000	4120	Standard beam	1.00	1.00	1.00	1.00	1.00	1.14	1.14	1.14	1.14	1.14
Homogeneous product	ExLin 5L-2	Clear glass	>70	5000	5820	Standard beam	1.15	1.15	1.19	1.00	1.13	0.92	0.92	0.96	0.80	0.91
Homogeneous product	ExLin 5L-2	Clear glass	>70	5000	6120	Wide beam	1.15	1.15	1.19	1.00	1.13	0.88	0.88	0.91	0.76	0.87
Homogeneous product	ExLin 5L-2	Frosted glass	>70	5000	4980	Standard beam	1.15	1.15	1.19	1.00	1.13	1.08	1.08	1.12	0.94	1.07
Homogeneous product	ExLin 7L-2	Clear glass	>70	5000	8600	Standard beam	1.15	1.15	1.19	1.52	1.13	0.63	0.62	0.65	0.83	0.62
Homogeneous product	ExLin 7L-2	Clear glass	>70	5000	9030	Wide beam	1.15	1.15	1.19	1.52	1.13	0.60	0.59	0.62	0.79	0.59

Classification	Model	Cover type	CRI	CCT (K)	lumens	Optics	Coefficient extrapolation factor at product level(Declared Unit)					Coefficient extrapolation factor at FU level				
							M	D	I	U	E	M	D	I	U	E
Homogeneous product	ExLin 7L-2	Clear glass	>70	4000	8160	Standard beam	1.15	1.15	1.19	1.52	1.13	0.66	0.66	0.68	0.87	0.65
Homogeneous product	ExLin 7L-2	Clear glass	>80	5000	7670	Standard beam	1.15	1.15	1.19	1.52	1.13	0.70	0.70	0.73	0.93	0.69
Homogeneous product	ExLin 7L-2	Clear glass	>80	4000	7170	Standard beam	1.15	1.15	1.19	1.52	1.13	0.75	0.75	0.78	0.99	0.74
Homogeneous product	ExLin 7L-2	Frosted glass	>70	5000	7370	Standard beam	1.15	1.15	1.19	1.52	1.13	0.73	0.73	0.76	0.97	0.72
Homogeneous product	ExLin 7L-2	Frosted glass	>70	4000	6990	Standard beam	1.15	1.15	1.19	1.52	1.13	0.77	0.77	0.80	1.02	0.76
Homogeneous product	ExLin 7L-2	Frosted glass	>80	5000	6570	Standard beam	1.15	1.15	1.19	1.52	1.13	0.82	0.82	0.85	1.08	0.81
Homogeneous product	ExLin 10L-2	Frosted glass	>80	5000	8670	Standard beam	1.15	1.15	1.19	2.02	1.13	0.62	0.62	0.64	1.09	0.61

Where- CRI: Color Rendering Index, CCT: Correlated Color Temperature, M: Manufacturing phase, D: Distribution phase, I: Installation phase, U: Use phase, E: End of life phase

Disclaimer

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		Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025: 2006			
Internal	X	External	
The PCR review was conducted by a panel of experts chaired by chaired by Julie Orgelet (DDemain)			
PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019. The components of the present PEP cannot be compared with components from another program.			
Document complies with ISO 14025: 2006 « Environmental labels and declarations. Type III environmental declarations »			